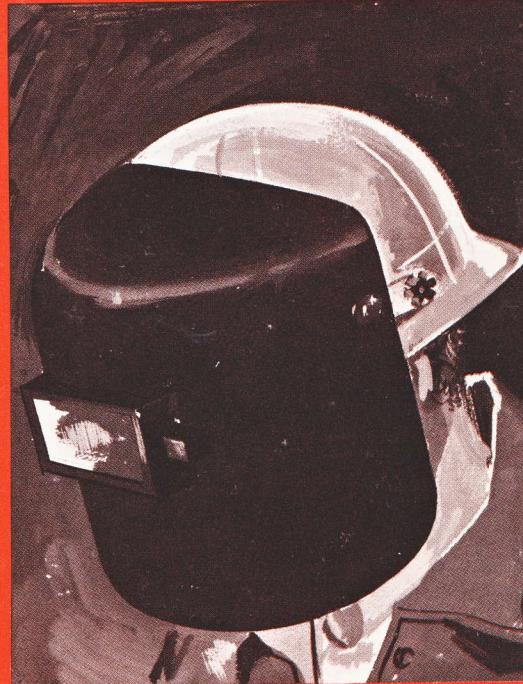
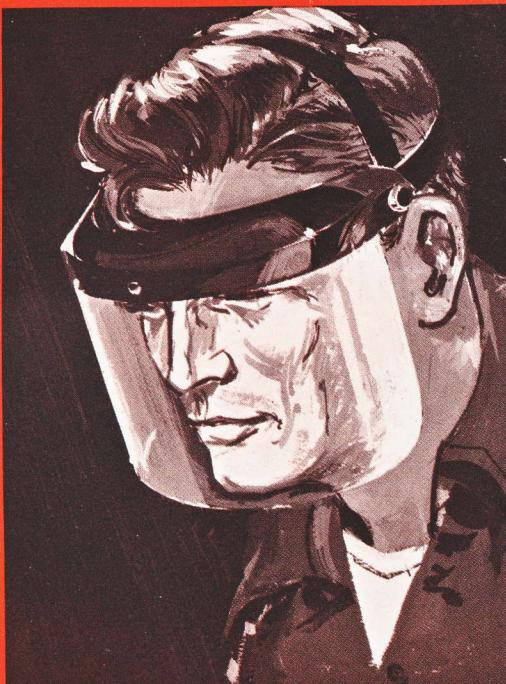
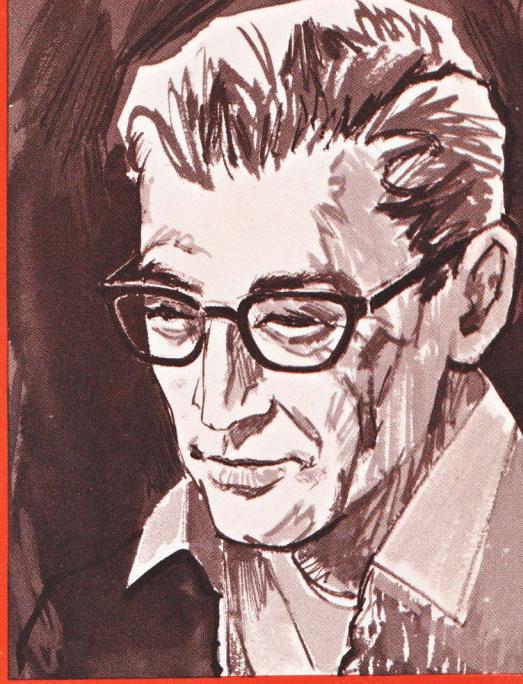
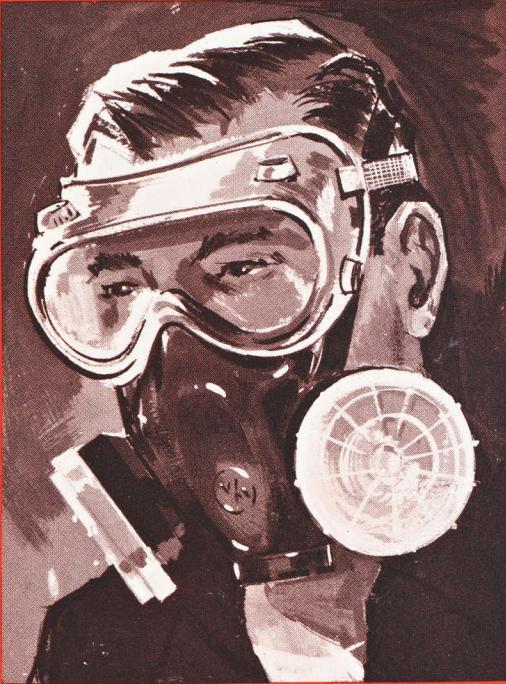
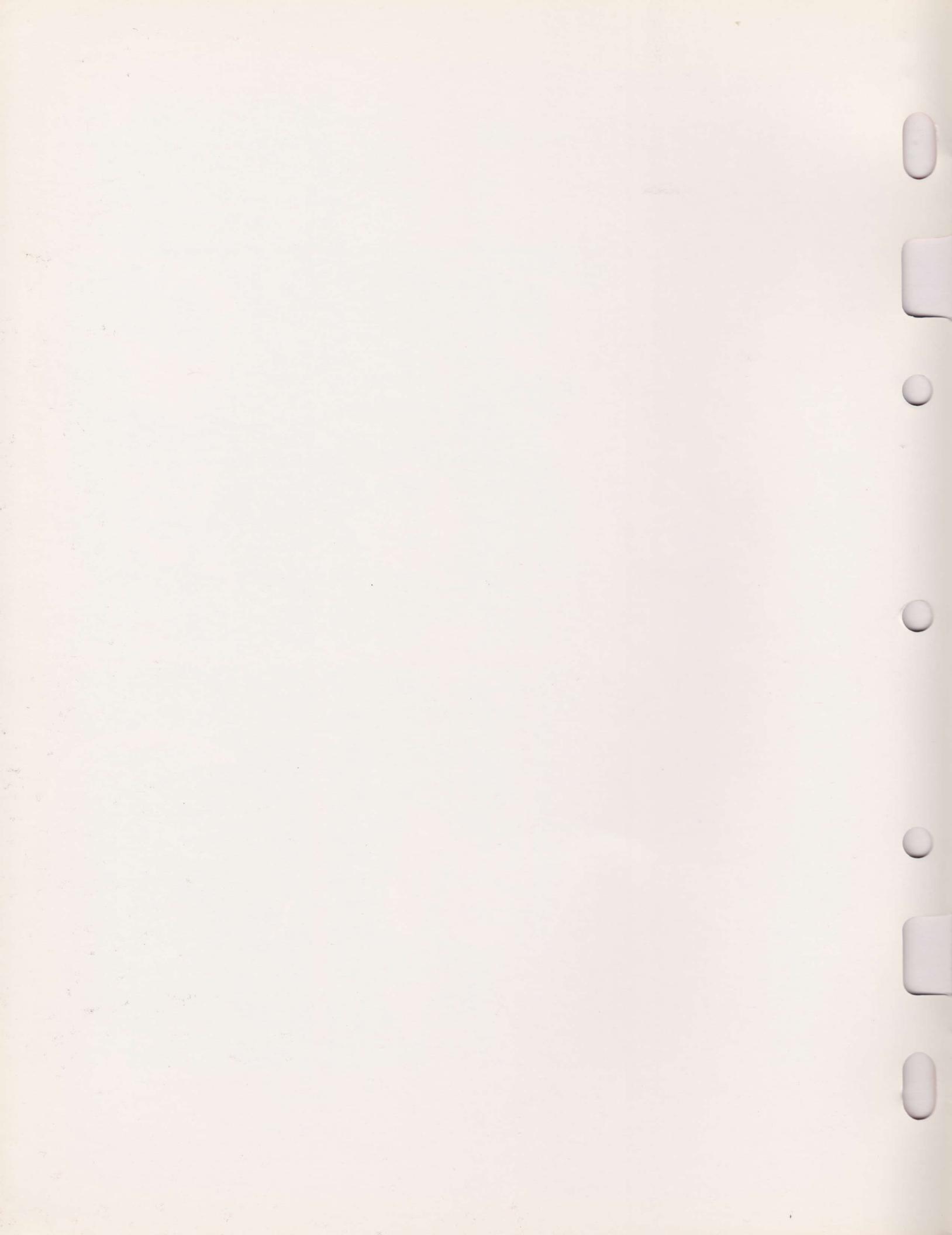


complete line of Welsh eye and face protection



WELSH
MANUFACTURING COMPANY
PROVIDENCE, RHODE ISLAND





WELSH ... protection by design

Since its establishment in 1925, Welsh has been an innovator in design. Constantly working with new materials and backed with excellent engineering capabilities, plus superior craftsmanship, Welsh has developed new and improved products for personal protection against the many hazards existing in modern industry.

Today, in three plants encompassing more than 120,000 square feet of manufacturing space, and with its own research facilities, Welsh devotes 100% of its effort to the improvement of the individuals personal safety in hazardous occupations.

index

Chippers' Cup & Cover Goggles	21, 22
Chippers' & Grinders' Spectacles	16
"Cinderella" Safety Spectacles	13
Hook-overs and Clip-ons	15
Face Shields	27
Fitting Instructions	7
Flexible Frame Goggles — "Zephyr", "Soft-I", "Cyclops"	19, 22, 23
Lenses	5, 6
Helmets	25
Magnaview	6
Melters' Spectacles	16
Metal Frame Safety Spectacles	14
Plastic Frame Safety Spectacles	10, 11, 12, 13
Replacement Parts — Spectacles	17, 18
Goggles	24
Helmets	26
Rubber Frame Goggles	20
Safety Lenses	6
Single Lens Goggles	19, 20
Spectacle Cases	18
"Triumph" Safety Spectacles	12
Visitors' Spectacles	15
Welders' Cup and Cover Goggles	21, 23
Welders' Flash Spectacles	16
Welders' Helmets	25

HOW TO USE THIS CATALOG.

Welsh Catalog 66E is designed to be used easily with the Eye and Face Protection price list. At the bottom of each product page in the catalog there is a reference to the corresponding product page in the price list. Catalog 66E is divided by the following product groups: Lenses, Safety Spectacles, Goggles, Welding Helmets, Face Shields. Detailed information on replacement parts follows each product group.

safety lenses

WELSH LENSES are individually tested to conform to Government Specifications for impact resistance and optical quality. All Welsh safety spectacles and goggles are fitted with heat treated, WM lenses unless otherwise specified. **Welsh protective plastic lenses** also meet applicable Government Specifications. All Welsh plastic lenses have high resistance to pitting, scratching, abrasions, acids and temperature.

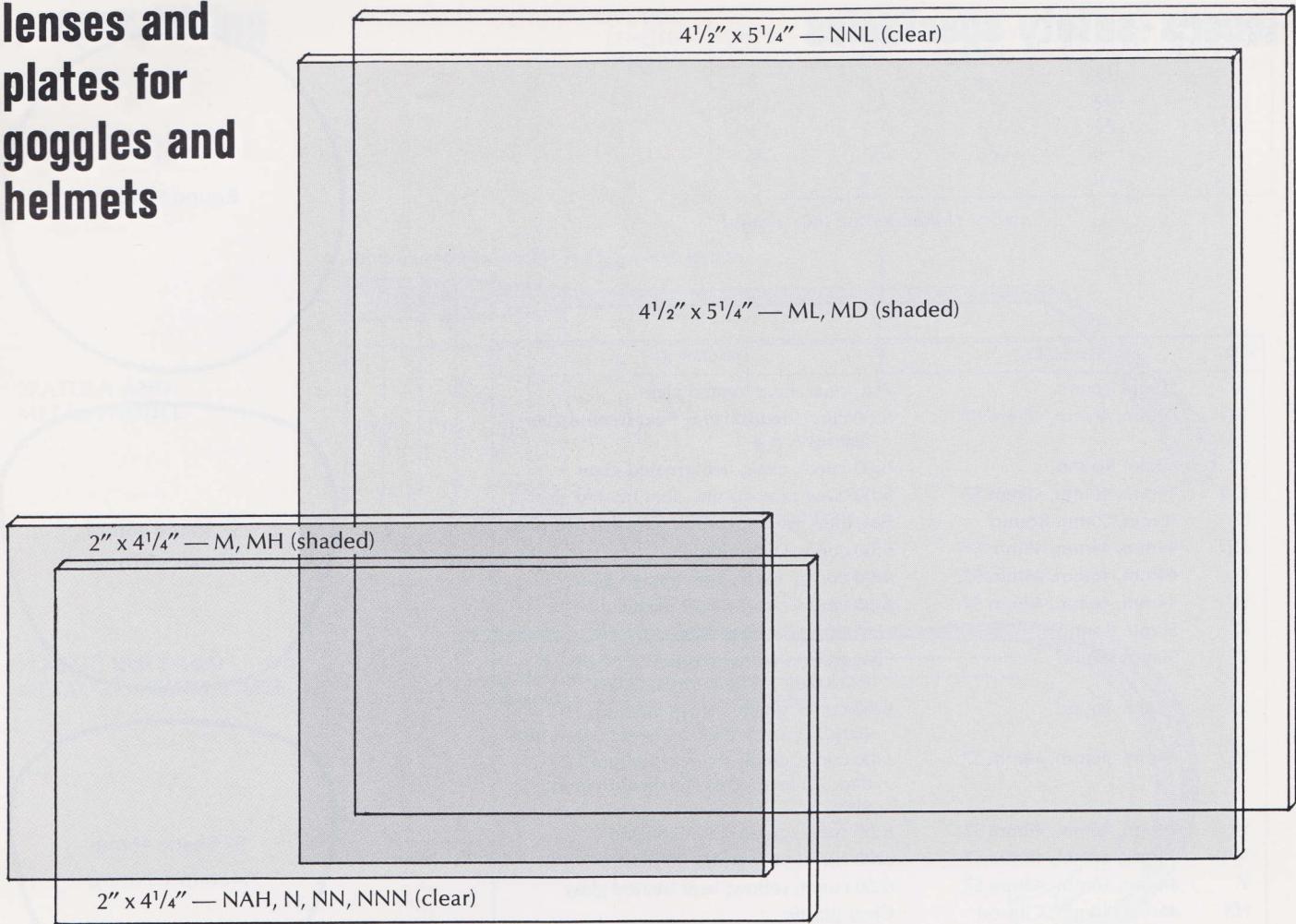
WELSH WELDING PLATES meet all Federal Specifications. Special shapes and sizes of filter glass can be obtained on special order. Heat treated welding plates can be obtained on special order.

Following transmission table shows how the visible and invisible rays are eliminated.

TRANSMISSION				
RECOMMENDED USES	SHADE	VISIBLE	INFRA RED	ULTRA VIOLET
For soldering, metal pouring and work around furnaces	Medium 1.7	50%	20%	0.2%
	Dark 2.0	37%	15%	0.2%
	Extra Dark 2.5	23%	12%	0.2%
For torch brazing and light cutting (up to 1")	3.0	13.9%	9%	0.2%
	4.0	5.18%	5%	0.2%
From medium cutting (1" to 6") to heavy cutting (6" and more)	5.0	1.93%	2%	0.2%
	6.0	.72%	1.5%	0.1%
From gas welding — light (up to $\frac{1}{8}$) to medium ($\frac{1}{8}$ " to $\frac{1}{2}$ ")	8.0	.100%	1.0%	0.1%
	9.0	.037%	0.8%	0.1%
For shielded metal-arc welding ($\frac{1}{16}$ ", $\frac{3}{32}$ ", $\frac{1}{8}$ ", $\frac{5}{32}$ " electrodes)	10.0	.0139%	0.6%	0.1%
	11.0	.0052%	0.5%	0.05%
For inert-gas, metal-arc welding — ferrous ($\frac{1}{16}$ ", $\frac{3}{32}$ ", $\frac{1}{8}$ ", $\frac{5}{32}$ " electrodes)	12.0	.0019%	0.5%	0.05%
	13.0	.00072%	0.4%	0.05%
Shielded metal-arc welding ($\frac{1}{16}$ ", $\frac{3}{32}$ ", $\frac{1}{4}$ " electrodes)	14.0	.00027%	0.3%	0.05%
Carbon arc welding				
For Atomic Hydrogen welding shades 10 - 14 are recommended.				

WELSH SPECIAL USE LENSES, in either plastic or glass, are made for a wide range of applications. All are made under the same high ophthalmic standards employed for other Welsh lenses.

lenses and plates for goggles and helmets

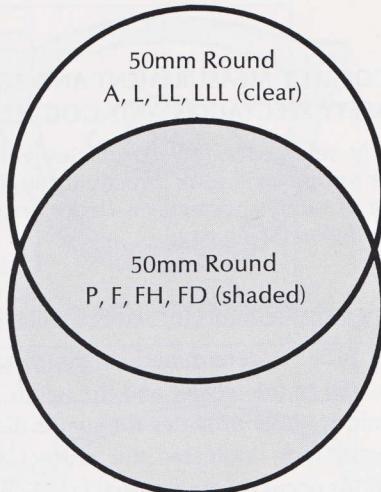


magnaview Welding Magnifier Lightweight magnification lens

Eight powers of magnification: .75D, 1.00D,
1.25D, 1.50D,
1.75D, 2.00D,
2.25D and 2.50D

This lens is made of clear glass, optically correct, for welders wearing bi-focals and for close-up precision work. Fits all standard welding helmets and Model 5072 cover goggles. Packaged in individual plastic cases.

STYLE	LENS SIZES	DESCRIPTION
A	50mm Round	Flat, clear, heat treated glass
P	50mm Round	Flat, green, heat treated glass
F	50mm Round	Flat, green-shades 3-8
FH	50mm Round	Flat, green-shades 3-8, heat treated glass
FD	50mm Round	Welding didymium glass, green-shades 3-6
L	50mm Round	Clear, glass cover
LL	50mm Round	Clear, Acetate-.020, cover
LLL	50mm Round	Clear, CR-39 plastic cover
M	2" x 4 1/4"	Green-shades 3-14, glass
MH	2" x 4 1/4"	Green-shades 3-14, heat treated glass
ML	4 1/2" x 5 1/4"	Green-shades 3-14, glass
MD	4 1/4" x 5 1/4"	Welding Didymium
N	2" x 4 1/4"	Clear, glass cover
NN	2" x 4 1/4"	Clear, plastic-.020 cover
NNN	2" x 4 1/4"	Clear, CR-39 cover
NNNL	4 1/2" x 5 1/4"	Clear, CR-39 cover
NAH	2" x 4 1/4"	Clear, heat treated glass



Special sizes of filter plates are available on request. All Welsh lenses conform to Government Specifications where such specifications exist. For prices on all goggles and helmet lenses and plates, see pages 20 & 21 of Price List.

lenses - safety spectacles

STYLE	LENS SIZES	DESCRIPTION
A	50mm Round	Flat, clear, heat treated glass
BG	44mm, 46mm, 48mm S7	6:00 curve, neutral gray heat treated glass. Shades A & B
C	50mm Round	6:00 curve, clear, heat treated glass
CA	44mm, 46mm, 48mm S7	6:00 curve, smoke tint, heat treated glass
D	40mm, 50mm Round	Flat, blue-medium shade, unhardened glass
DD	44mm, 46mm, 48mm S7	6:00 curve, Didymium
G	44mm, 46mm, 48mm S7	6:00 curve, clear, heat treated glass
H	44mm, 46mm, 48mm S7	6:00 curve, clear, CR-39 plastic
K	50mm Round	Flat, clear, CR-39 plastic
P	50mm Round	Flat, green-shades medium 1.7, dark 2.0, extra dark 2.5 heat treated glass
S	50mm Round	6:00 curve, green-shades medium 1.7, dark 2.0, extra dark 2.5 heat treated glass
V	44mm, 46mm, 48mm S7	6:00 curve, green-shades medium 1.7, dark 2.0, extra dark 2.5, heat treated glass
W	44mm, 46mm, 48mm S7	6:00 curve, green, CR-39 plastic
WY	44mm, 46mm, 48mm S7	6:00 curve, yellow, CR-39 plastic
Y	44mm, 46mm, 48mm S7	6:00 curve, yellow, heat treated glass
HX	46mm, 48mm, Clip-on	Clear plastic
WX	46mm, 48mm, Clip-on	Green plastic

For prices on safety spectacle lenses, see page 12 of Price List.

THE CORRECT MEASUREMENT AND SELECTION OF SAFETY SPECTACLES AND GOGGLES ...

Properly selected safety spectacles will be of such dimensions that the wearer's pupils will look directly through the center of the lenses. The overall size of safety spectacles is determined by the distance (PD) as indicated in drawing on facing page.

The key measurements for safety spectacles are:

FRAME SIZE . . . determined by the distance between the pupils (PD) of the wearer and the width of the nose (DBL). (PD) minus (DBL) provides the major diameter of the lens which, in turn, indicates the correct frame size. Some exceptions occur due to unusual facial characteristics when a larger lens size than indicated may be required.

EYE SIZE . . . for plastic safety spectacles, it is the distance at the widest point of the inner lens frame plus 2 mm's.

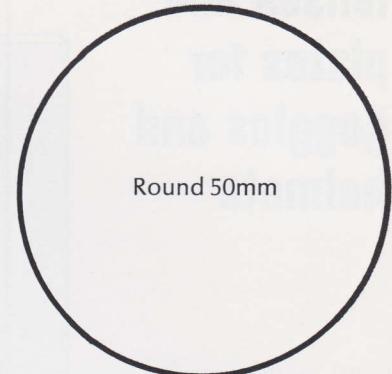
EYE SIZE . . . for metal safety spectacles *without side shields*, it is the same distance plus 1 mm. *With side shields* it is the same plus approximately 2 mm.

LENS SIZE . . . round lenses are sized by their true diameter in mm's.

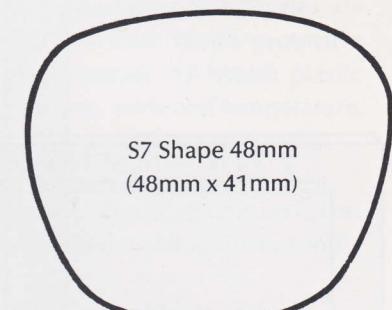
LENS SIZE . . . square shape lenses are available in four sizes: 42 mm, 44 mm, 46 mm and 48 mm, which is the widest diameter of each. The narrower or vertical diameter of each is 35 mm, 37 mm, 39 mm and 41 mm respectively.

BRIDGE SIZE . . . determined by the distance between the lenses in mm's.

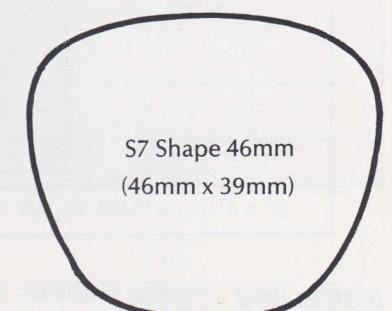
TEMPLE SIZE . . . measured in inches from the end piece of the spectacles to $\frac{1}{4}$ " below the top and to the rear of the ear.



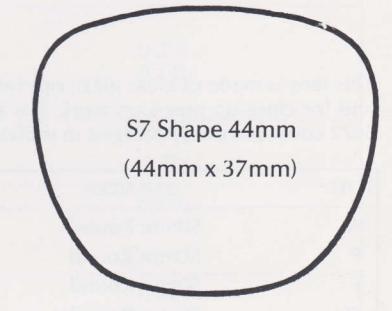
Round 50mm



S7 Shape 48mm
(48mm x 41mm)



S7 Shape 46mm
(46mm x 39mm)



S7 Shape 44mm
(44mm x 37mm)

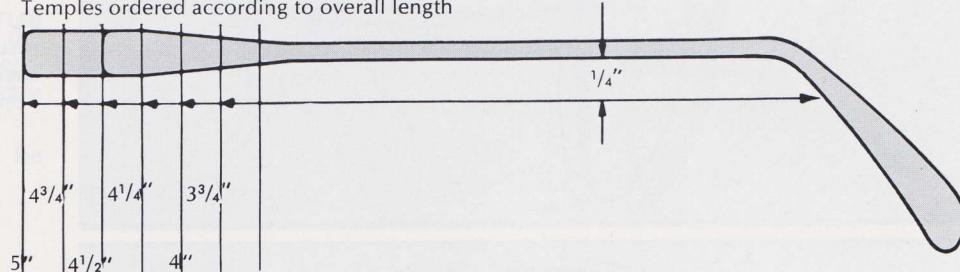
proper fitting

OVERALL
LENGTH
— INCHES

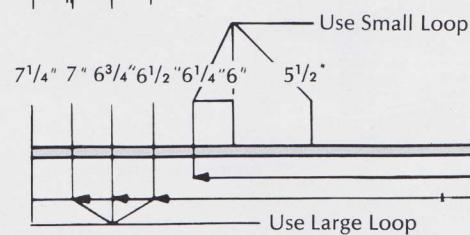
FIT*	PLASTIC BUTT COVERED CABLE	METAL COMFORT CABLE	SPATULA	METAL PADDLE
4	6	6	5 $\frac{1}{4}$	5 $\frac{1}{4}$
4 $\frac{1}{4}$	6 $\frac{1}{4}$	6 $\frac{1}{4}$	5 $\frac{1}{2}$	5 $\frac{1}{2}$
4 $\frac{1}{2}$	6 $\frac{1}{2}$	6 $\frac{1}{2}$	5 $\frac{3}{4}$	5 $\frac{3}{4}$
4 $\frac{3}{4}$	6 $\frac{3}{4}$	6 $\frac{3}{4}$	6	6
5	7	7	6 $\frac{1}{4}$	6 $\frac{1}{4}$

*Length from butt of temple to bend

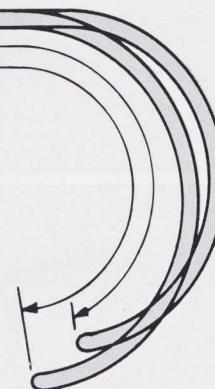
Temples ordered according to overall length



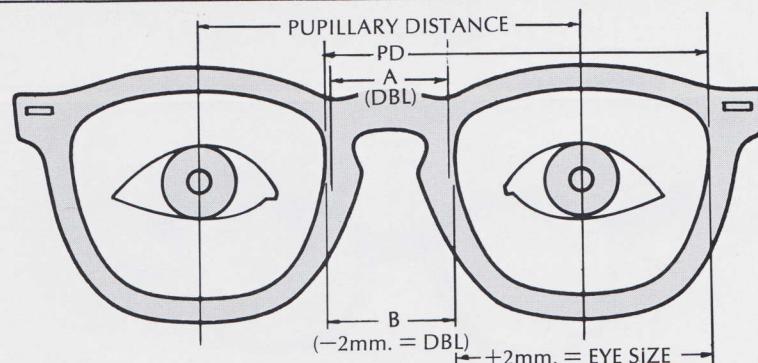
SPATULA AND METAL PADDLE



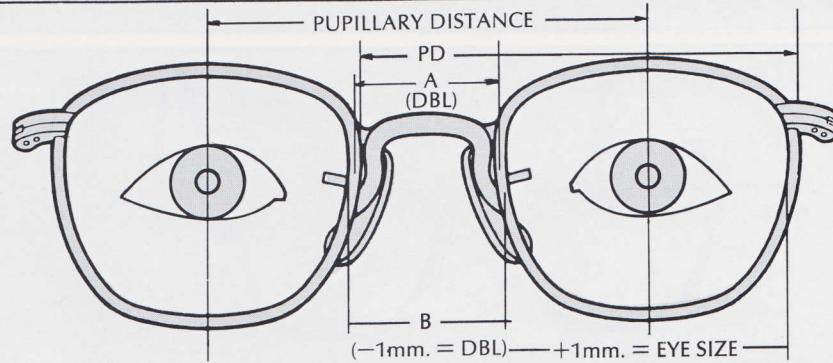
PLASTIC BUTT AND METAL COMFORT CABLE



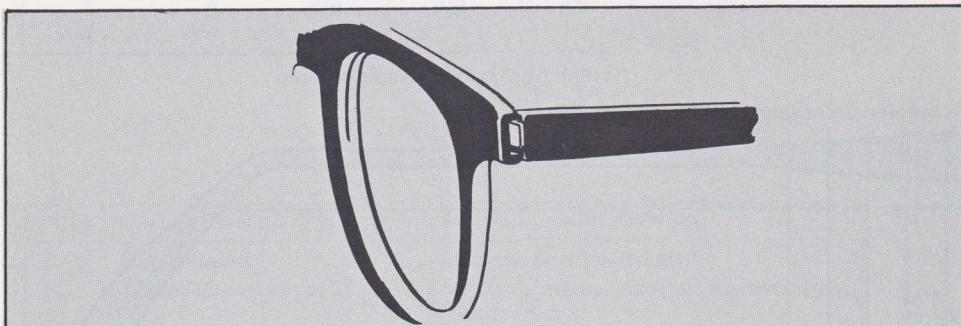
PLASTIC SAFETY GLASSES



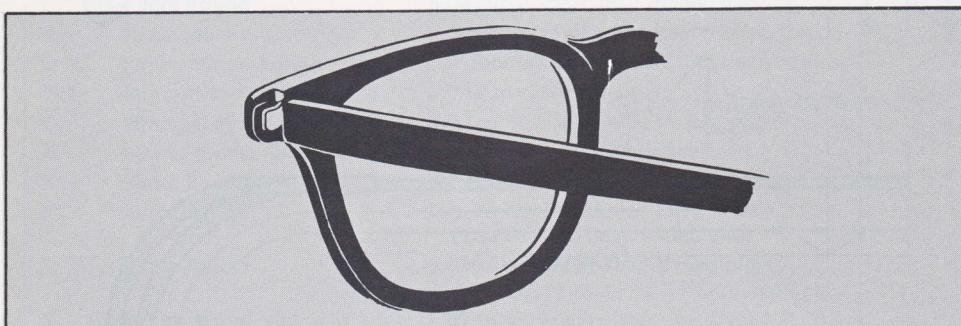
METAL SAFETY GLASSES



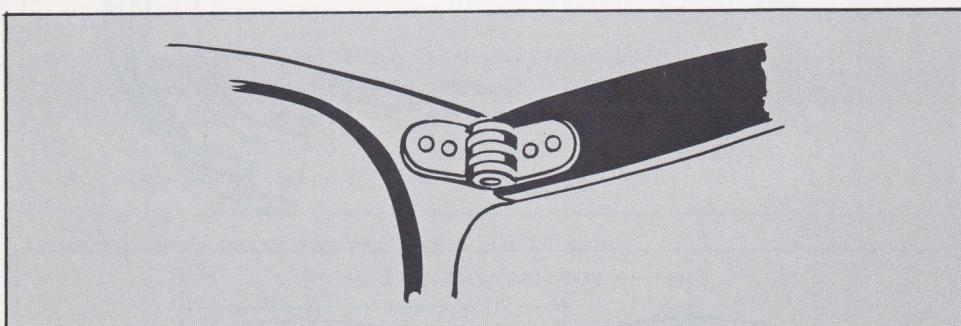
WELSH — protection by design



BUTT JOINT TEMPLE DESIGN
results in more rugged safety
spectacle construction. More de-
pendable temple to front fit.



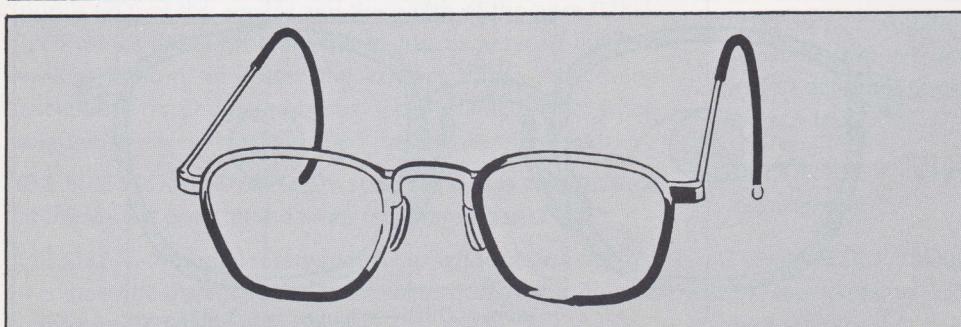
EXCLUSIVE TEMFLEX SPRING
resists bowing and permits a more
secure, comfortable fit. Buffer ac-
tion of built-in spring at critical
point where temple meets front
relieves temple pressure on frame
and secures spectacles in correct
position preventing slippage on
nose.



**GOVERNMENT SPECIFICATION
5 BARREL HINGE.**
Standard on all Welsh safety
spectacles. Assures smooth action.
Lock screw prevents loosening.
Has wide range of adjustments.



**ATTRACTIVE, HEAVY DUTY
FRAMES.**
Beefed up in critical areas where
stress occurs. Engineered specific-
ally for industrial use. Eye size
and temple length clearly identi-
fied.



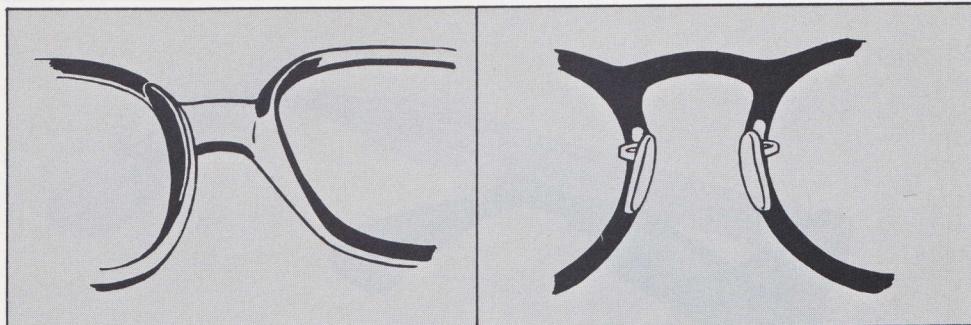
Where working conditions re-
quire an extra measure of protec-
tion, Welsh metal and combi-
nation metal and plastic frames pro-
vide the ultimate in spectacle
safety.

series 2000 safety glasses featuring the "WELSH" name

COMFORTABLE, WELL-FITTING BRIDGES.

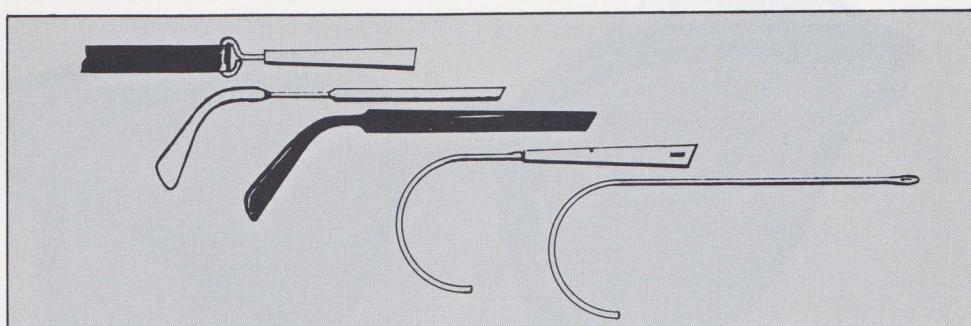
Modern efficient "Unibridge" design fits more than 95% of employees. Fixed bridges also available.

Rocker arm nose pads can be adapted to both.



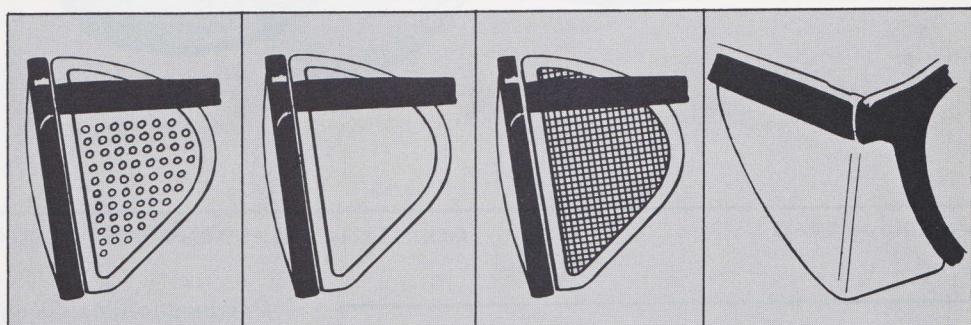
CHOICE OF TEMPLES.

Spade, metal paddle, plastic spatula, aluminum spatula, comfort cable or metal cable temple. Size clearly identified on temple.



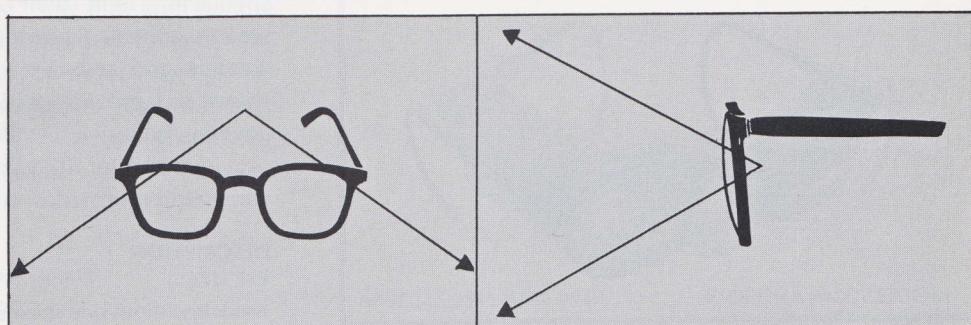
SIDE SHIELDS.

Total line. Perforated or solid, clear or green plastic. / Coarse or fine mesh wire screen. / Unique one piece Flat-Fold side shield and temple combinations available on some models. / Easily applied slip-on side shields.



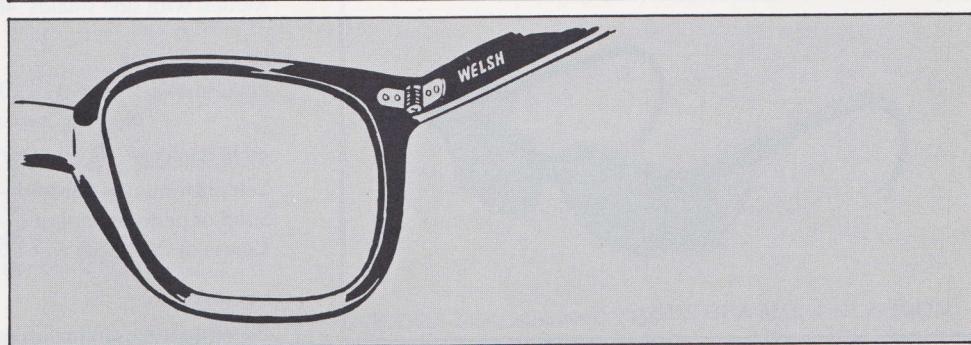
WIDE VISION AND GOOD ORBITAL FIT.

Precisely designed frames provide wide vision and lens angle follows orbit of eye, free and clear of eyelashes.



IDENTIFIED PROTECTION.

Welsh safety spectacles are clearly identified by name and trade mark — your assurance of a full measure of safety.



series 2200 plastic frame unibridge® safety spectacles



MODELS 2244, 2246 AND 2248



UNIBRIDGE



MODELS 2245 AND 2249



MODELS 2254, 2256 AND 2258

Designed to simplify individual fitting problems, these safety spectacles, with their attractive, trim styling, have great wearer appeal. Unibridge® design fits more than 95% of wearers and reduces inventory requirements. Modern S7 shape lens provides wide angle of vision and looks well on anyone. Exclusive Temflex spring resists frame bowing and provides a better fit. An improvement in the butt joint temple construction provides extra long temple and frame life.

DESCRIPTION

EYE SIZE

Models without side shields: 44mm, 46mm, 48mm

Models with side shields: 46mm and 48mm

FRAME COLOR

Pink, smoke or cordovan

LENSES

6.00 Curve, S7 shape

(See page 6 for details on lenses)

SIDE SHIELDS

Temple mounted flat-fold — clear or green

Solid or perforated plastic — clear or green.

Coarse or fine mesh wire screen — bright or black finish

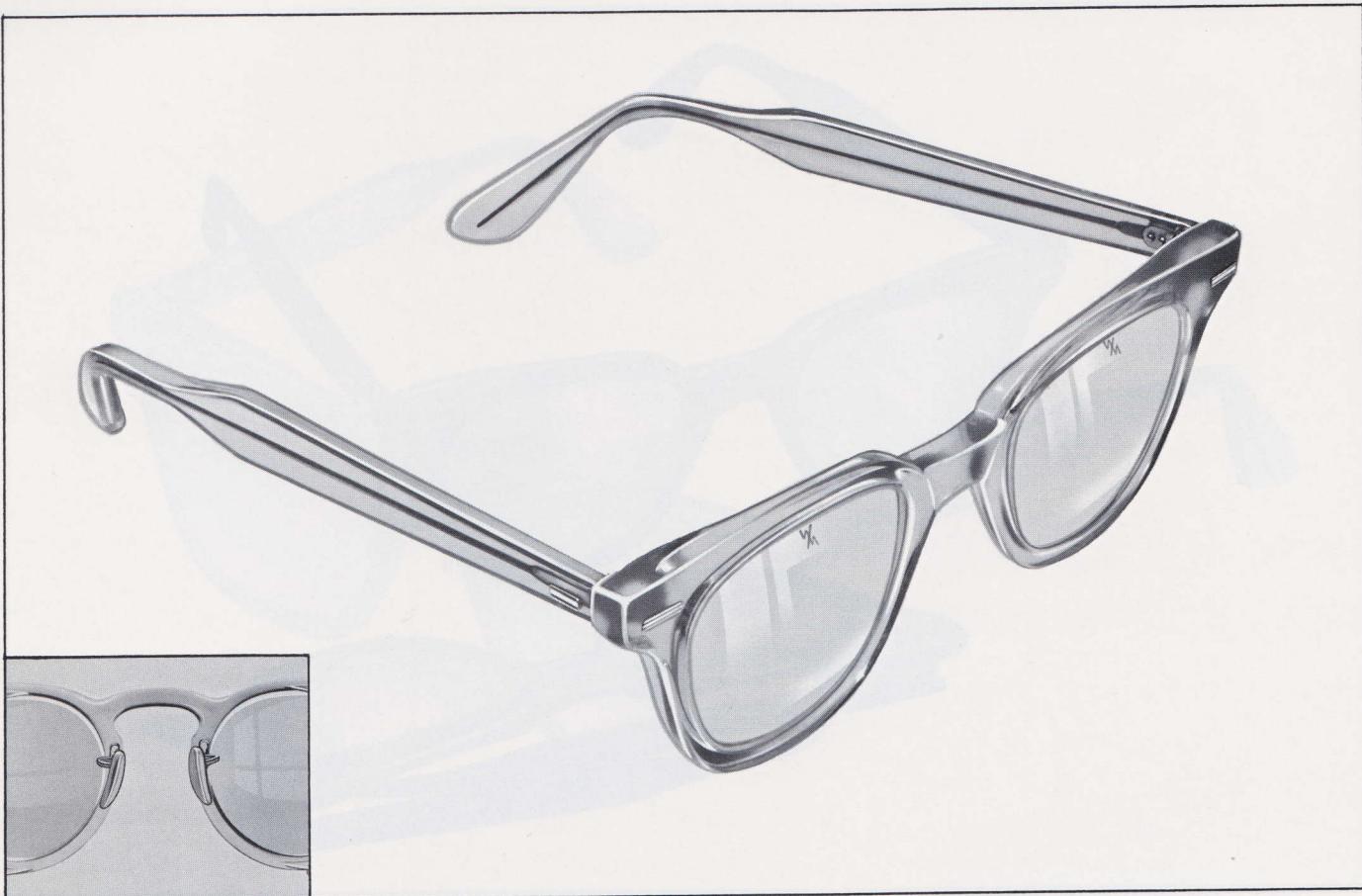
TEMPLES

Plastic spatula, aluminum spatula, comfort cable or metal paddle

Turn to pages 17 & 18 for detailed parts list. For prices on all Models, see page 3 Price List.

series 2400 plastic frame, fixed bridge safety spectacles

series 2500 same with rocker arm nose pad



ALL MODELS IN SERIES 2500 HAVE ROCKER ARM NOSE PADS.

MODELS 2444, 2446 AND 2448

Truly light in weight for maximum comfort but with added strength in upper frame across bridge. New butt joint temple construction . . . strong, light and trouble-free. S7 lens contributes to attractive modern styling for wearer appeal. Incorporates fitting and durability advantages of Temflex spring. With fixed bridge design this series is primarily for safety Rx but is also well accepted with plano lenses.

DESCRIPTION

EYE SIZE

Models without side shields: 44mm, 46mm, 48mm

Models with side shields: 46mm and 48mm

BRIDGE SIZE

18mm, 20mm, 22mm, 24mm, 26mm

FRAME COLOR

Pink, smoke or cordovan

LENSES

6.00 curve, S7 shape

(See page 6 for details on lenses)

SIDE SHIELDS

Temple mounted flat-fold — clear or green

Solid or perforated plastic — clear or green

Coarse or fine mesh wire screen — bright or black finish

TEMPLES

Plastic spatula, aluminum spatula, comfort cable or metal paddle



MODELS 2445 AND 2449



MODELS 2454, 2456 AND 2458

Turn to pages 17 & 18 for detailed parts list. For prices and data on all Models see page 4 Price List.

series 2600 "Triumph" plastic frame safety spectacles



MODELS 2644, 2646, AND 2648 TEMPLE-TO-TEMPLE REINFORCEMENT



MODELS 2654, 2656, 2658



MODELS 2645, 2649

"Triumph" Series 2600 spectacles combine unusual strength with handsome appearance. They feature temple to temple reinforcement with an imbedded metal strip across top of frame assuring complete shape retention under extreme environmental conditions. Ends bridge-breaking problems. The Temflex spring in addition to resisting bowing, helps hold bridge in correct position on nose. Result is the best fitting safety spectacles on the market. Unibridge design allows one bridge size to comfortably fit 95% of users. Has clean, high styling with a wide choice of colors and temples. For persons with unusual facial features, rocker arm nose pads can be added.

DESCRIPTION

EYE SIZE

Models without side shields: 44mm, 46mm or 48mm

Models with side shields: 46mm or 48mm

FRAME COLOR

Ebony, brown mist or smoke

LENSES

6.00 Curve, S7 shape

(See page 6 for details on lenses)

SIDE SHIELDS

Temple mounted flat-fold — clear or green.

Solid or perforated plastic — clear or green

Coarse or fine mesh wire screen — bright or black finish

TEMPLES

Plastic spatula, aluminum spatula or comfort cable

Turn to Pages 17 & 18 for detailed parts list. For Prices see page 5 Price List

for the ladies series 2700 "Cinderella" plastic frame safety spectacles



MODELS 2744 AND 2746

Popular "Cinderella" safety spectacles have crisp, clean lines — designed to flatter the feminine face. Light in weight, these durable spectacles incorporate the easy and unusual fine fitting advantages of the Unibridge® frame combined with the Temflex spring. Long term, comfortable protection with plenty of wearer appeal — frame colors and temple styles to please any girl.

DESCRIPTION

EYE SIZE

All Models: 44mm or 46mm

FRAME COLOR

Brown mist or smoke

LENSES

6.00 Curve, S7 shape

(See page 6 for details on lenses)

SIDE SHIELDS

Temple mounted flat-fold only — clear or green

TEMPLES

Plastic spatula, aluminum spatula, comfort cable, and metal paddle



MODELS 2754 AND 2756

series 2900 combination metal and plastic frame safety spectacles



MODELS 2944, 2946, 2948

Excellent spectacles for safety Rx, but also well accepted for plano lenses. Dark plastic trim and attractive metal bridge blend with clean, crisp eye wire to make one of the most distinctive safety spectacles on the market. Adjustable non-corrosive, plastic nose pads assure wearer comfort.

DESCRIPTION

EYE SIZE: 44mm, 46mm, 48mm

BRIDGE SIZE: 20mm, 22mm, 24mm

FRAME COLOR LENSES

Cordovan, black, or brown 6:00 Curve S7 Shape

NO SIDE SHIELDS

(See page 6 for details on lenses)

TEMPLES

Plastic spatula, aluminum spatula, comfort cable and metal paddle.

See pages 17 & 18 for detailed parts list.

For prices on all models, see page 9 price list.

series 3400 metal frame "Unibridge"® safety spectacles **series 3700 metal frame safety spectacles**



MODELS 3446, 3448

Protection by design — heavy duty metal frame spectacles for dependable protection under extreme working conditions. Have reinforced metal bar bridge for high rigidity and extra long life. Models 3446 and 3448 incorporate unique, plastic insert Unibridge®. Result is lower inventory requirement while providing a most comfortable fit with no metal touching the skin. Other models have rocker arm nose pads with solid shanks for maximum shock resistance, S7 shape lenses and high end pieces provide full vision and modern styling.

DESCRIPTION

EYE SIZES: 46mm, 48mm

BRIDGE SIZE

Series 3400: "Unibridge" insert fits all

Series 3700: 22mm, 24mm, 26mm

FRAME COLOR

Nickel silver

LENSES

6:00 Curve, S7 shape

(See page 6 for details on lenses)

SIDE SHIELDS

Solid or perforated plastic — clear or green

Coarse or fine mesh wire screen — bright or black finish

TEMPLES

Metal cable or metal paddle

See pages 17 and 18 for detailed parts list.

For prices on all models, see pages 7 and 8 of Price List.

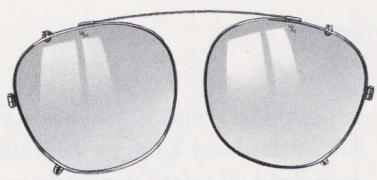


MODELS 3445, 3449



MODELS 3746, 3748

clip-on spectacles



STYLE 3946 & 3948



STYLE 3950



STYLE 3953



STYLE 3952

Clip-On, Clip-Over, Hook-Over — no matter what you call them, Welsh has the broadest line of frontal lens protection for Rx safety programs and regular Rx glasses. An efficient, low cost way of adding to life of lens and thereby reducing replacement costs. Choice of plastic lenses: Clear for protection against pitting and scratching; Green for protection against effects of glare. Universal fit enables all models to adapt to any size spectacles.

STYLE 3946 & 3948 — Metal frame Hook-Over's with clear or green plastic lenses

STYLE 3950 — Plastic spring Clip-On's with clear plastic lenses

STYLE 3951 — Same as 3950 with green plastic lenses

STYLE 3952 — Featherweight, rimless plastic, clip-flip Clip-On's. Clear lens

STYLE 3953 — Same as 3952 with green lenses. Green plastic lenses can be flipped up or down for rapidly changing light conditions.

STYLE 3954 — Same as 3952 with gray lenses

STYLE 3955 — Lightweight, rimless, metal Hook-Over's — clear lenses. Ideal cover lens.

STYLE 3956 — Same as 3955 with green plastic lenses

STYLE 3957 — Same as 3955 with gray lenses

visitor's spectacles

These light weight, high styled, low cost spectacles are ideal for plant visitors' protection.

STYLE 1066 PLASTIC VISITORS' SPECTACLES with clear lens. Low cost give aways are modern, smartly styled with natural fitting bridge. Black frames. Temples may be imprinted on request. Style 1067 has green lens.

STYLE 1104 METAL FRAME WRAP AROUND VISITORS' SPECTACLES with clear lens have the ever popular international look. Styles: 1105 with green lens, 1106 with neutral grey lens, 1107 with yellow lens. When ordering, add L or S to model number to indicate large or small size lens.

STYLE 1111 PLASTIC FRAME VISITORS' SPECTACLES are uniquely designed with a wide upper frame which fits easily and comfortably over prescription glasses. Available with or without side shields. May be imprinted on request.

All visitors' spectacles sold in minimum order lots of one dozen.



STYLE 1066



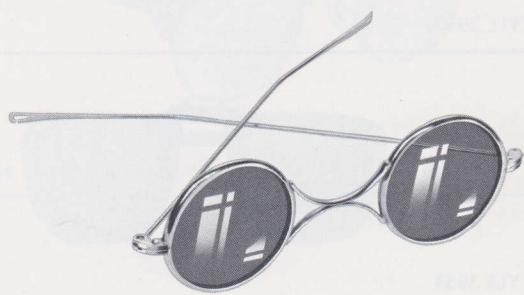
STYLE 1104



STYLE 1111

For prices on Clip-on and Visitors' spectacles models see page 10 Price List.

special purpose metal frame spectacles



STYLE 3040



STYLE 3251



STYLE 3260



STYLE 3261

All of these Welsh spectacles are built for long life under hard working conditions and meet or exceed all safety standards.

STYLE 3040 MELTERS' SPECTACLES — Designed for open hearth operations, for inspecting metal heats and fire boxes. Has reinforced, criss-cross metal bridge and extra long metal temples for ease in lowering and raising. Fitted with 40mm, flat, blue glass lenses.

STYLE 3251 HEAVY DUTY CHIPPERS' AND GRINDERS' SPECTACLES — with reinforced high-bar saddle bridge leather nose guard and side shields.

LENSES: 50mm round, flat.
(See page 6 for details on lenses.)

TEMPLES: Vinyl covered cable.

SIDE SHIELDS: Leather (illustrated).
Solid or perforated Plastic — clear or green.
Wire screen — black or bright finish.

STYLE 3250 (not illustrated) — Same as 3251 without side shields

STYLE 3260 WELDERS' FLASH SPECTACLES — with reinforced, high bar saddle bridge, leather nose guard and leather bridge.

LENSES: 50mm round, flat. 2.0 shade is standard.
1.7 and 2.5 shades available on special order.

(See page 6 for details on lenses.)

TEMPLES: Vinyl covered cable.

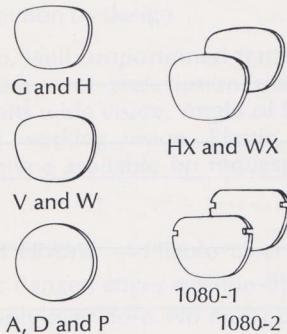
SIDE SHIELDS: Leather

STYLE 3261 — Same as 3260 with solid green acetate side shields instead of leather.

See pages 17 & 18 for detailed parts list.
For prices on all models, see page 11 of Price List.

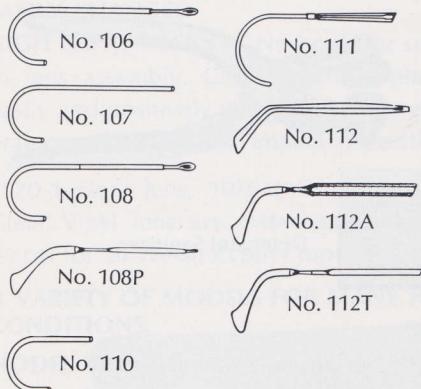
replacement parts – spectacles

LENSES (See page 6 for complete details)



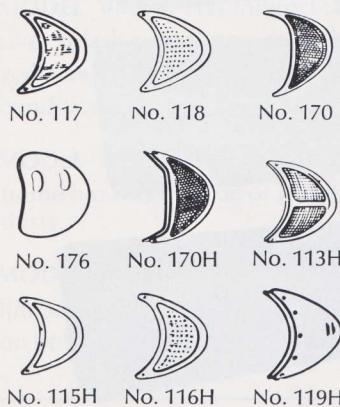
STYLE	LENS SIZES			DESCRIPTION
G	44mm	46mm	48mm	Series: 2200, 2400, 2600, 2700, 2900, 3400, 3700
H	44mm	46mm	48mm	Series: 2200, 2400, 2600, 2700, 2900, 3400, 3700
V	44mm	46mm	48mm	Series: 2200, 2400, 2600, 2700, 2900, 3400, 3700
W	44mm	46mm	48mm	Series: 2200, 2400, 2600, 2700, 2900, 3400, 3700
A	50mm round			Models 3251, 3250
D	50mm round			Models 3260, 3261
P	50mm round			Models 3260, 3261
D	40mm round			Model 3040
HX	46mm or 48mm square			Model 3900
WX	46mm or 48mm square			Model 3900

TEMPLES AND TUBING



NO.	
106	Metal cable, vinyl covered for Model 3200
107	Tubing only for Model 3200
108	Metal cable 6 ³ / ₄ ", 6 ¹ / ₂ ", 6 ¹ / ₄ " for Series 3700 & 3400 without side shields
108P	Metal paddle 6 ¹ / ₄ ", 6", 5 ³ / ₄ " for Series 3700 & 3400 without side shields
109	Metal cable 6 ³ / ₄ ", 6 ¹ / ₂ ", 6 ¹ / ₄ " for Series 3700 & 3400 with side shields
109P	Metal paddle 6 ³ / ₄ ", 6", 5 ³ / ₄ " for Series 3700 & 3400 with side shields
10GR	Spade temple
110	Tubing only for Series 3700 & 3400
111	Comfort cable 6 ³ / ₄ ", 6 ¹ / ₂ ", 6 ¹ / ₄ " for Series 2200, 2400, 2600, 2700, 2900
112	Spatula 6 ¹ / ₄ ", 6", 5 ³ / ₄ " for Series 2200, 2400, 2600, 2700, 2900
112T	Metal paddle 6 ¹ / ₄ ", 6", 5 ³ / ₄ " for Series 2200, 2400, 2600, 2700, 2900
112A	Aluminum spatula 6 ¹ / ₄ ", 6", 5 ³ / ₄ " for Series 2200, 2400, 2600, 2700, 2900
199	Straight metal, open tip, for Model 3040 Standard Cable temples — 6 ³ / ₄ " Standard Spatula temples 44mm eye size — 6" 44 & 46mm eye size — 5 ³ / ₄ "

SIDE SHIELDS

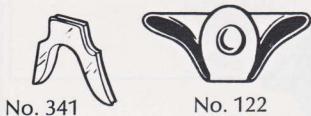
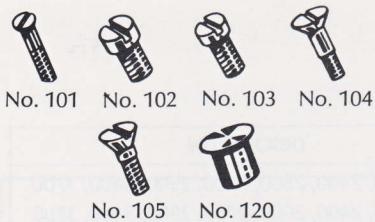


NO.	FOR SERIES 3200	FOR SERIES 2200, 2400, 2600 AND 2700	
113H	Wire screen	176	Slip-ons, clear
115H	Solid plastic, clear or green	177	Slip-ons, green
116H	Perf. plastic, clear or green		FOR SERIES 3400 AND 3700
119H	Leather	117H	Solid plastic, clear or green
	FOR SERIES 2200, 2400 AND 2600	118H	Perf. plastic, clear or green
117	Solid plastic, clear or green	170H	Wire screen, 24 mesh, bright finish
118	Perf. plastic, clear or green	173H	Wire screen, 24 mesh, black finish
170	Wire screen, 24 mesh, bright finish	174H	Wire screen, 40 mesh, bright finish
173	Wire screen, 24 mesh, black finish	175H	Wire screen, 40 mesh, black finish
174	Wire screen, 40 mesh, bright finish		
175	Wire screen, 40 mesh, black finish		

TEMPLES WITH SIDE SHIELDS ATTACHED

NO.	FOR SERIES 2200, 2400, 2600 AND 2700 With solid Flat-fold side shields
160	Comfort cable clear
161	Comfort cable green
162	Spatula clear
163	Spatula green
164	Metal paddle clear
165	Metal paddle green

For prices, see pages 12, 13 & 14 of Price List.



SCREWS & RIVETS

NO.	
101	End piece screw, Series 3200
102	Temple screw, Series 3700 & 3400
103	Temple screw, Series 3200
104	Temple screw, Series 2900
105	End piece screw, Series 2800
120	Rivets for replacement side shields
293	End piece screw, Series 2900

NOSE PAD ASSEMBLY

NO.	
121	Rocker Arm Assembly, Series 2500
121A	Pad and pad rivet, Series 2900, 3700 & 2500

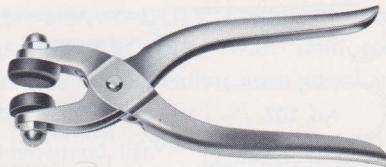
MISCELLANEOUS

NO.	
341	Unibridge plastic insert, Series 3400
122	Leather nose guard, Series 3200 & Model 3040



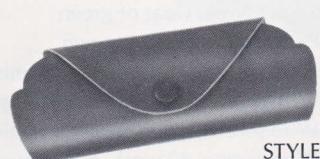
Pocket Polaroscope

9500
Lens inserting pliers
for plastic frames



Detergent Sanitizer

safety spectacle cases



STYLE

DESCRIPTION

1060XV	Vinyl Lizagator for Spectacles without Side Shields
1061X	Metal Clam Shell for Spectacles without Side Shields
1062X	Leatherette for Visitors Spectacles
1063X	Metal Clam Shell for Spectacles with Side Shields
1064X	Vinyl Slip-In Case with Deluxe Liner
1067X	Leatherette Folding Case for Clip-On Spectacles
1068XP	Texas Tan Vinyl Slip-In Case without Pocket Clip for Spectacles without Side Shields
1068X	Texas Tan Vinyl Slip-In Case with Pocket Clip for Spectacles without Side Shields
1069XP	Jumbo Texas Tan Vinyl Slip-In Case without Pocket Clip for Spectacles with Side Shields
1069X	Jumbo Texas Tan Vinyl Slip-In Case with Pocket Clip for Spectacles with Side Shields

For prices, see pages 14 & 15 of Price List.

WELSH Zephyr® — soft frame, single lens goggles safe and comfortable for a wide range of hazardous conditions

The ultimate in wearer comfort, safety and efficiency.
Protection by design.

Deep, well proportioned frame fits easily and comfortably over prescription glasses. Clarity of frame permits wide vision. Angle of lens in frame provides ideal working vision. Elastic headbands standard, neoprene available on request.

SOFT FRAME — Pliable clear or green frame with wide flanged edges cushion-fits to face — rests comfortably over nose. No metal parts.

LIGHTWEIGHT — So light that it can be worn all day without wearer fatigue.

EASILY CHANGED

HIGH IMPACT LENS — No hooks or snaps required in lens assembly. Clear or green plastic lens fits easily and positively in molded channel. Meets Federal specifications for impact protection.

1070-1 clear lens, 1070-2 Green lens and 1070-3 Clear Vinyl lens are interchangeable replacement lenses for all Welsh Zephyr models.

A VARIETY OF MODELS FOR MANY HAZARDOUS CONDITIONS.

MODEL 1070 — Frame is perforated on top and sides to provide maximum ventilation for average working conditions without sacrificing protective qualities.

MODEL 1072 — Has indirect ventilation with exclusive, splash-proof, non-corrosive, plastic, stack-trap vents in place of perforations for acid and splash conditions.

MODEL 1073 — Has non-ventilated frame for extreme hazards of toxic or irritating fumes, vapors and dusts.

MODEL 1074 — Frame has non-perforated top for limited splash conditions. Perforations for ventilation on bottom and side only.



REPLACEMENT PARTS

For prices, see page 16 of Price List.

specialty goggles



MODEL 1090 (Clear and Green) — Low cost. Rigid, one piece, non-flammable acetate construction. Perforated for ample ventilation. One piece elastic headband.

MODEL 1120 — Light weight, low cost, chenille-bound plastic goggles for dust conditions. Hinged bridge section allows goggles to flex to shape of face. Chenille binding is soft, comfortable — sure seal against dust. Has one piece elastic headband. Effectively worn in combination with dust respirator.

MODEL 1045 — Multipurpose rubber frame goggles. Comfortable fitting eye protection against chemical splashes, dust and wind blown particles. Clear or green replaceable plastic lens (.040 or .060 thick). Choice of wire screen or felt ventilation filters. Neoprene headband.

MODEL 1040 — Fog-free, dust-free rubber frame goggles. Breathing action changes air in lens chamber up to 64 times a minute . . . prevents fogging or frosting down to 35°F. Filters keep out dust and other particles. Frame fits comfortably over prescription glasses. Available with replaceable clear or green plastic lens (.040 thick).

For prices, see pages 16 & 17 of Price List.

rigid frame, cup and cover goggles

slippop smart fits

These Welsh cup and cover goggles have a number of design features which have won the respect of wearers. They are made of high quality, thermal plastic and have a jam-proof rim assembly.

Cup Goggles have adjustable bridge of neoprene-insulated ball chain secured by unique patented metal chain keeper.

Cover Goggles with deep contoured cups are comfortably worn over all types of spectacles. Cups are connected by soft vinyl nose guard with simple adjustment. Brace bar across upper frame, which permits wearer to easily raise goggle with one hand, is optional.

welders' goggles

Indirect ventilation through scientifically designed baffled vents of non-corrosive metal provides maximum protection against injurious welding rays while minimizing fogging of lenses.

Welding lenses conform to all Federal Specifications — available in shades 3 through 8 for all models. Cover lenses protect against spatter and pitting.

Standard adjustable headband is elastic — neoprene available on request.

chippers' goggles

Maximum eye protection for extremely hazardous conditions. Cups are unaffected by moisture, steam, sterilization and most acids.

Fine, perforated, non-corrosive metal screen provides good ventilation and prevents lens fogging. Lenses are tough-hardened, clear heat-treated glass.

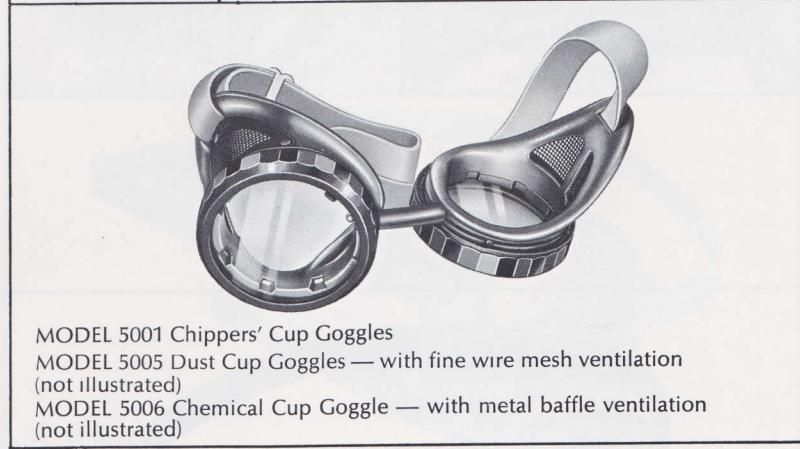
Choice of opaque or transparent cup and cover frames. Standard adjustable headband is elastic — neoprene available on request.



MODEL 5002 Welders' Cup Goggles



MODEL 5024 Welders' Cover Goggles with
non-corrosive brace bar
MODEL 5022 without brace bar is not illustrated

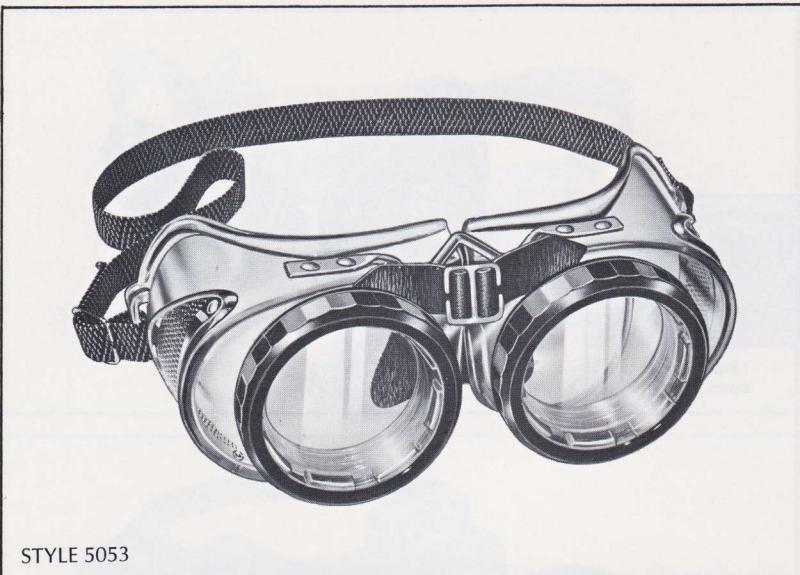


MODEL 5001 Chippers' Cup Goggles
MODEL 5005 Dust Cup Goggles — with fine wire mesh ventilation
(not illustrated)
MODEL 5006 Chemical Cup Goggle — with metal baffle ventilation
(not illustrated)

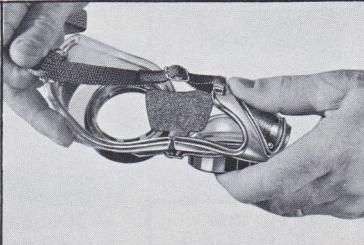


MODEL 5023 Chippers' Cover Goggles with non-corrosive brace bar
MODEL 5021 without brace bar (not illustrated)

soft frame goggles



STYLE 5053



STYLE 5071

MODEL 5053 "CYCLOPS" — Has soft, pliable one piece transparent plastic frame with a unique stack trap vent. Perforated for ample ventilation. Has brace bar across bridge.

A great safety device because they are so light weight and now even thicker vented lenses to reduce fog. It allows the user to wear glasses or contact lenses and the sleek frame will fit over prescription lenses.

Look to Cyco for all your eye protection needs.

Modern, lightweight, heavy duty eye protection. Only completely adjustable cover goggle on the market. Soft, pliable, contour designed vinyl frames provide the ultimate in comfort and fit — even over prescription glasses.

Lenses are easily disassembled for changing or replacement. Elastic headbands are standard; neoprene available on request.

chippers' goggles

MODEL 5053 — "SOFT-I" Has pliable transparent frame with metal screen ventilation to prevent fogging. Has brace bar across bridge for ease of handling.

MODEL 5071 — "CYCLOPS" Has soft, resilient frame of one piece transparent plastic with unique stack trap vents for good ventilation. Has two easily assembled CR-39 plastic plates.

For prices, see page 19 of Price List.

soft frame goggles

welders' goggles

MODEL 5054 — "SOFT-I" Has pliable opaque frame with non-corrosive metal baffles for good indirect ventilation while guarding against harmful flashes and light leaks. Welding lenses, shades 3 through 8, conform to all Federal Specifications. Cover lenses protect against spatter and pitting. Reinforced with non-corrosive metal brace bar for easy one-handed lifting of goggles.

MODEL 5050 — not illustrated — without brace bar.

MODEL 5154 — same "SOFT-I" cover goggle as 5054 on cushioned headrest frame in place of elastic headband for easy raising and lowering of goggles.

MODEL 5070 — "CYCLOPS" One piece, opaque, cover-all frame with exclusive stack-trap indirect ventilation which guards against harmful flashes and light leaks. Has fixed front and simplified lens holder for easiest possible lens replacement.

MODEL 5171 — has same welders' Cyclops goggle as Model 5070 but has cushioned headrest frame in place of elastic headband.

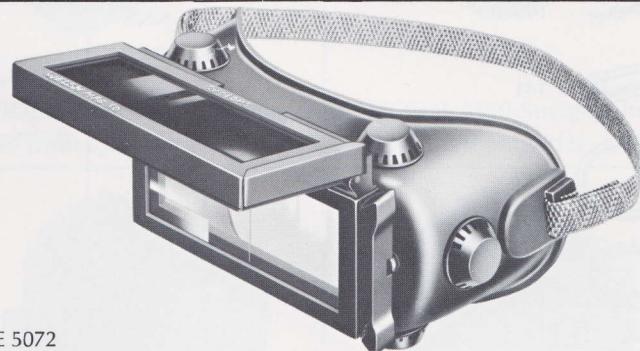
MODEL 5072 — same as Model 5070 but with lift front lens holder. Special adaptor included for inserting magnifying lens (Magnaview) in fixed position behind lift front for close work.



STYLE 5054



STYLE 5070



STYLE 5072



STYLE 5154



STYLE 5170

For prices, see page 19 of Price List.

replacement parts, cup and cover goggles



STYLE A STYLE P, F, FH

M

N, NN, NNN

NNNL

ML



136



137



138

139



140



141



142



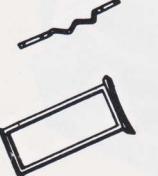
143



144



145



147



151

(See page 5 for details on lenses)

LENSES	FOR CHIPPERS' Series 5001, 5005, 5006, 5023, 5051, 5053, 5071
STYLE A P NNN	SIZE 50mm round Clear 50mm round Filter 2" x 4 1/4" Cover
	FOR WELDERS' Series 5002, 5022, 5024, 5050, 5054, 5070, 5072
STYLE F FH NNN L LL LLL NNN	SIZE 50mm round Filter 50mm round Filter 50mm round Cover 50mm round Cover 50mm round Cover 50mm round Cover 2" x 4 1/4" Cover clear CR-39 plastic
	FOR HELMETS
STYLE M MH ML N NN NNN NNNL	SIZE 2" x 4 1/4" Filter 2" x 4 1/4" Filter 4 1/2" x 5 1/4" Filter 2" x 4 1/4" Cover 2" x 4 1/4" Cover 2" x 4 1/4" Cover clear CR-39 plastic 4 1/2" x 5 1/4" Cover clear CR-39 plastic
	OTHER PARTS FOR GOGGLES
STYLE 136 137 138 139 140 141 142 143	Elastic headbands & buckles for Series 5000 Rubber headbands & buckles for Series 5000 Buckles for elastic headbands for Series 5000 Buckles for rubber headbands for Series 5000 Chain bridge for Series 5000 Chain bridge tube for Series 5000 Lens washer Rims
	PARTS FOR GOGGLES, Models 5022, 5024, 5050, 5054
STYLE 144 145 146 147 151	Bridge strap & buckles Bridge strap buckles Bridge strap only — (no illustration) Crown, brace with rivets Lens inserter & separator, green for Model 5070

For prices, see pages 20 & 21 of Price List.

"Warrior" fiberglass welding helmets and handshields

Welsh fiberglass shells resist heat and weld splatter — are lightweight, long lived and moisture proof and as strong as steel. Lens and cover plates are easily replaced. Lens holder is molded integral part of shell — no need of backup plates. A chin rest assures maximum comfort. Curved shell is extra roomy; straight shell gives added throat protection. Ratchet headgear adjusts instantly to head size, with rugged nylon ratchet assembly. Sweat band adds to comfort fit. New, improved positive positioning lock holds helmet at proper eye level for any welding position. A nod of the head lowers helmet ready for welding.

For information on Safety Cap and Helmet Combinations, see Welsh Head Protection Catalog.

(Illustrations show standard combinations of helmet types, curved bibs or straight bibs. Note handshield Models 8280 and 8380 have no head gear. All are available with fixed fronts or lift fronts.)



MODEL 8200 Curved shell,
fixed front lens holder



MODEL 8250 Curved shell,
lift front lens holder



MODEL 8300 Straight shell,
fixed front lens holder



MODEL 8350 Straight shell,
lift front lens holder



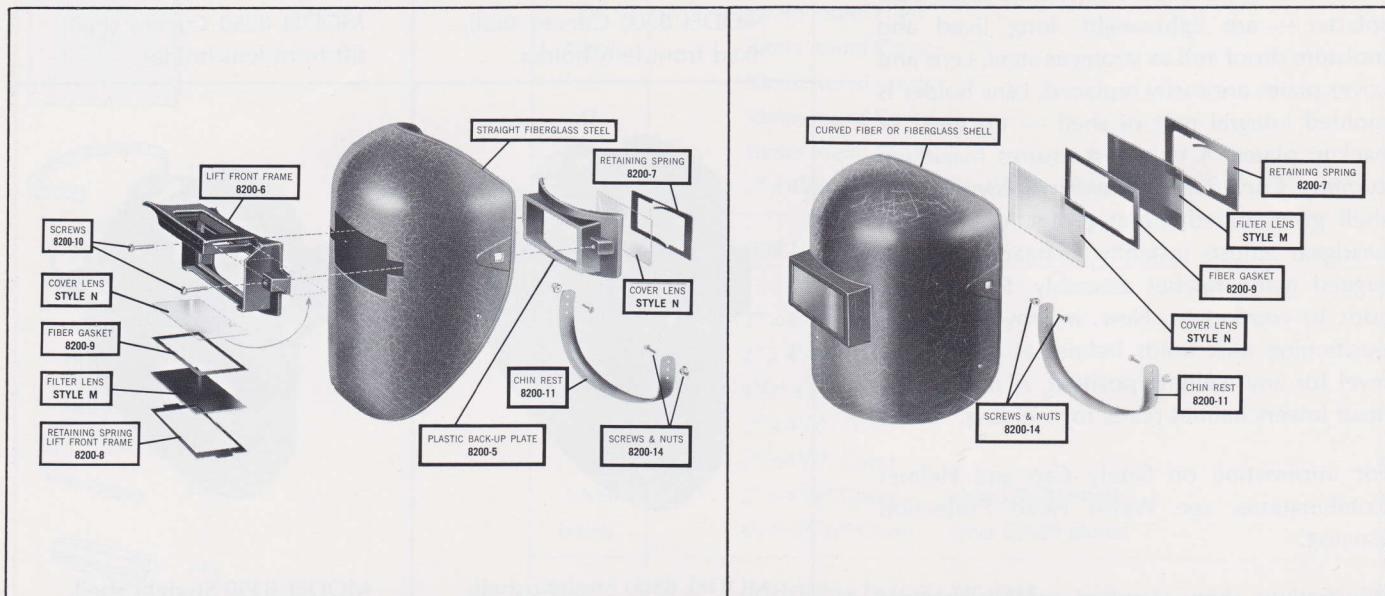
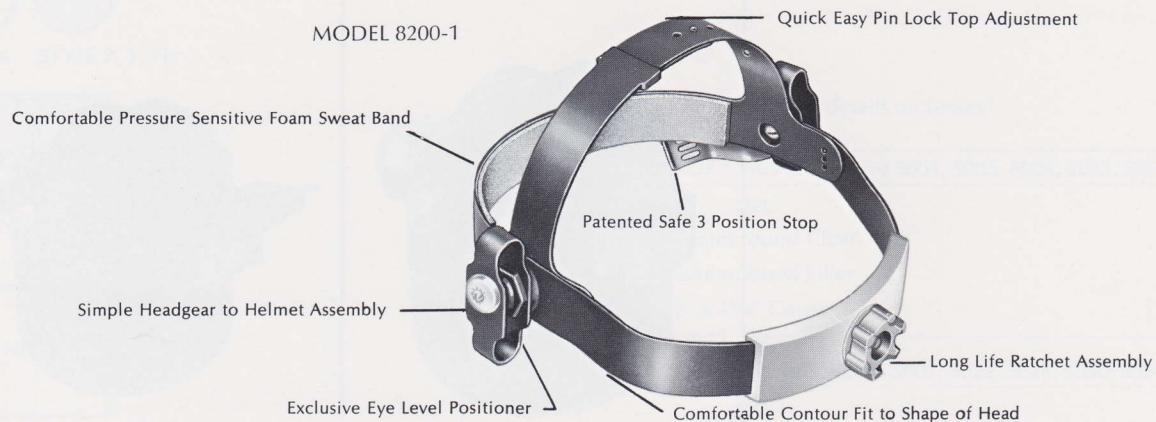
MODEL 8280 Curved shell
handshield, fixed front lens
holder



MODEL 8380 Straight shell
handshield, fixed front lens
holder

WELSH welding headgear

sturdy, lightweight, comfortable, and interchangeable on all WELSH shells.



REPLACEMENT PARTS
"WARRIOR" WELDING HELMETS
(See page 5 for details on lenses)



NO.	DESCRIPTION
8200-1	Headgear — ratchet type
8200-3	Glass holder complete, lift front
8200-5	Back up plate — lift front
8200-6	Glass holder, outer frame, lift front
8200-7	Lens retaining spring
8200-8	Lens retaining spring, lift front
8200-9	Lens gasket
8200-10	Screws for lens holder
8200-11	Chin rest with hardware
8200-12	Foam sweat band (box of 12)
8200-13	Leatherette sweat band
8200-14	Screws and Nuts for chin rest
8200-15A	Red plastic button & screw

For prices, see page 21 of Price List.

lightweight face shields

One of the handiest protective devices offered by Welsh. This low cost, lightweight face shield slips on and off in an instant. Gives good protection to entire face . . . vision is little hampered even when dust or spray is heavy. Fits all head sizes — shield is held on securely by headband. Top band adjusts quickly with pin lock. Positive stop side nut prevents window from hitting face. Pressure sensitive foam sweat band for maximum comfort and sweat absorption.

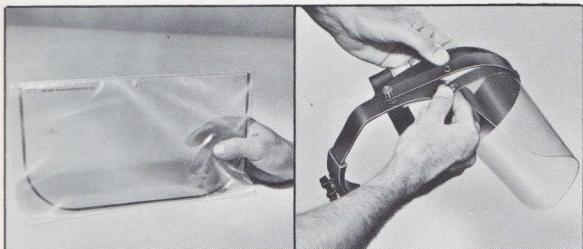
Windows, .020", .040" and .060" thick, in 4, 6, 8 or 9 inch lengths and clear or green acetate, are easily replaced. A fiber band with 3 snaps hold windows securely to the wide plastic spark guard. Foam sweat band adds to comfort fit.

REPLACEMENT WINDOWS

NO.	LENGTH OF WINDOW	THICKNESS	COLOR
6824	4"	.020"	
6826	6"	.020"	
6828	8"	.020"	clear
6829	9" x 15 $\frac{1}{2}$ "	.020"	or
6844	4"	.040"	green
6846	6"	.040"	shades —
6848	8"	.040"	medium
6849	9" x 15 $\frac{1}{2}$ "	.040"	or
6864	4"	.060"	dark
6866	6"	.060"	
6868	8"	.060"	
6869	9" x 15 $\frac{1}{2}$ "	.060"	

HEADGEAR PARTS

NO.	DESCRIPTION
6000-1	Spark guard strap for Models 6300, 6400, 6500
6000-2	Adjustable headband & buckle for Model 6400
6000-3	Spark guard locknut for Models 6300, 6400, 6500



Windows individually packaged

Easy snap-on window installation



SERIES 6300 the "WELSHMAN" with pin lock headbands



SERIES 6400 the "SPARTAN" with elastic headband



SERIES 6500 the "TROJAN" Molded plastic with ratchet adjustment

**OTHER WELSH PROTECTIVE
PRODUCTS FOR INDUSTRIAL
SAFETY.**
RESPIRATORY PROTECTION
HEARING PROTECTION
HEAD PROTECTION
FIRST AID KITS AND REFILLS



WELSH
MANUFACTURING COMPANY
9 MAGNOLIA STREET, PROVIDENCE, R.I. 02909